PTO/SB/05 (11-00) Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY PATENT APPLICATION **TRANSMITTAL**

Please type a plus sign (+) inside this box —

Attorney Docket No.	3135-12		
First Inventor	O'Connor, Jr.		
Title			

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Express Mail Label No.

Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Description of the Prawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure Drawing(s) (35 U.S.C. 113)	APPLICATION ELEMENTS		ADDRESS TO: Assistant Commissioner for Patents Box Patent Application
Computer Program (Appendix)			Washington, DC 20231
X Applicant calains small entity status. See 3f CFR 1.27. Since fication Cross Reference to Tidal Pages 9 1			
Specification Total Pages 9 1	Applicant claims small entity status.		Nucleotide and/or Amino Acid Sequence Submission
Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Description of the Invention - Brief Description of the Invention - Brief Description of the Disclosure X	Specification		1
- Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Claim(s) - Claim(s) - Claim(s) - Abstract of the Disclosure X Drawing(s) (35 U.S.C. 113) Total Sheets 3 1	Chereneo anangement		· · · · · · · · · · · · · · · · · · ·
Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Description of the Invention Brief Description of the Drawings (if filed) Detailed Description - Claim(s) - Claim(s) - Claim(s) - Claim(s) - Abstract of the Disclosure - Copies of IDS - Claim(s) -			
or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Claim(s) - Detailed Description - Claim(s) - Abstract of the Disclosure X			i. ☐ CD-ROM or CD-R (2 ∞pies); or
- Background of the Invention - Brief Summary of the Invention - Brief Summary of the Invention - Brief Description of the Prawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure Drawing(s) (35 U.S.C. 113)			i i. 🔲 paper
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a. X Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63 (d)) c. DELETION OF INVENTOR(S) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63 (q)(2) and 1.33(b). Application Data Sheet. See 37 CFR 1.76 B. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, rin an Application Data Sheet under 37 CFR 1.76: Continuation Data Sheet under 37 CFR 1.76: Continuation Data Sheet under 37 CFR 1.76: Continuation of Divisional Continuation-in-part (CIP) Prior application information: Examiner Group Art Unit: Corr CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an eath or declaration is supplied under 3x Sb, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Or Correspondence address below Name Russel H. Marvin, CTO Torrington Research Company (Assignee) Address 8.9 Commercial Blvd City Torrington State CT Zip Code 0.6790 Country USA Telephone 860-489-0489 Fax 860-482-2	5. Oath or Declaration	, ·	12 Information Disclosure Copies of IDS
b. Copy from a prior application (37 CFR 1.63 (d)) for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63 (q)(2) and 1.33 (d). Application Data Sheet. See 37 CFR 1.76 B. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Data Sheet under 37 CFR 1.76: Continuation Data Sheet under 37 CFR 1.76: Continuation of Divisional Continuation-in-part (CIP) Prior application information: Examiner Group Art Unit: Correctory Continuation of the disclosure of the accompanying continuation and in a preliminary amendment, and so the reduction of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Russel H. Marvin, CTO Torrington Research Company (Assignee) Address 8.9 Commercial Blvd City Torrington State CT Zip Code 0.6790 Country USA Registration No. (Attomey/Agent)	a. X Newly execu		Cutement (IBC)// 10-14-3
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). Application Data Sheet. See 37 CFR 1.76 If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application information: Examiner Group An Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under sox Sb, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Russel H. Marvin, CTO Torrington Research Company (Assignee) Address 89 Commercial Blvd City Torrington State CT Zip Code 06790 Country USA Telephone \$60-489-0489 Fax \$60-482-2	Copy from a	prior application (37 CFR 1.63 (d))	Return Receipt Postcard (MPEP 503)
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). Application Data Sheet. See 37 CFR 1.76 8. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, r in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No: Prior application information: Examiner Group An Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Russel H. Marvin, CTO Torrington Research Company (Assignee) Address 89. Commercial Blvd City Torrington State CT Zip Code 0.6790 Country USA Telephone 860-489-0489 Fax 860-482-2 Name (Print/Type) Russel H. Marvin Registration No. (Attorney/Agent)			<u> </u>
or its equivalent. Other: 17.	named in the prior application, see 37 CFR Request and Certification under 35 U.S.C. 1		
8. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.:			
rin an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No.:	o Application Data	Sheet. See 37 CFR 1.76	17. Other:
Continuation Divisional Continuation-in-part (CIP) of prior application No.:/_ Prior application information: Examiner Group An Unit:	18. If a CONTINUING APPLI	CATION, check appropriate box, and supp	ly the requisite information below and in a preliminary amendment,
Prior application information: Examiner		eet under 37 CFR 1.76:	
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Russel H. Marvin, CTO Torrington Research Company (Assignee) Address 89 Commercial Blvd City Torrington State CT Zip Code 06790 Country USA Telephone 860-489-0489 Fax 860-482-2 Name (Print/Type) Russel H. Marvin Registration No. (Attorney/Agent)	Continuation	Divisional Continuation-in-part (CIP)	of prior application No.:/
Sox 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Russel H. Marvin, CTO Torrington Research Company (Assignee) Address 89 Commercial Blvd City Torrington State CT Zip Code 06790 Country USA Telephone \$60-489-0489 Fax \$60-482-2 Name (Print/Type) Russel H. Marvin Registration No. (Attorney/Agent)	* *		
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19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Russel H. Marvin, CTO Torrington Research Company (Assignee) Address 89 Commercial Blvd City Torrington State CT Zip Code 06790 Country USA Telephone \$60-489-0489 Fax \$60-482-2 Name (Print/Type) Russel H. Marvin Registration No. (Attomey/Agent)	The incorporation can only be	relied upon when a portion has been inadvert	tently omitted from the submitted application parts.
Name Russel H. Marvin, CTO Torrington Research Company (Assignee) 89 Commercial Blvd City Torrington State CT Zip Code 06790 Country USA Telephone \$60-489-0489 Fax \$60-482-2 Name (Print/Type) Russel H. Marvin Registration No. (Attorney/Agent)		·····	
Torrington Research Company (Assignee) 89 Commercial Blvd City Torrington State CT Zip Code 06790 Country USA Telephone \$60-489-0489 Fax 860-482-2 Name (Print/Type) Russel H. Marvin Registration No. (Attorney/Agent)	Customer Number or Bar C	ode Label agus sin Castana (C. Castana) a	or Correspondence address below
Address 89 Commercial Blvd City Torrington State CT Zip Code 06790 Country USA Telephone $60-489-0489$ Fax $860-482-2$ Name (Print/Type) Russel H. Marvin Registration No. (Attorney/Agent)	Name	Russel H. Marvin	, CTO
City Torrington State CT Zip Code 06790 Country USA Telephone $860-489-0489$ Fax $860-482-2$ Name (Print/Type) Russel H. Marvin Registration No. (Attorney/Agent)		Torrington Resear	rch Company (Assignee)
City Torrington State CT Zip Code .06790 Country USA Telephone \$60-489-0489 Fax \$60-482-2 Name (Print/Type) Russel H. Marvin Registration No. (Attomey/Agent)	Address	89 Commercial Bly	bv
Country USA Telephone \$60-489-0489 Fax \$60-482-2 Name (Print/Type) Russel H. Marvin Registration No. (Attorney/Agent)	City	1	
	Country	USA Tele	ephone \$60-489-0489 Fax 860-482-2
	Name (Print/Type)	Russel H Marvin	Registration No. (Attorney/Agent)

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application. Washington, DC 20231.

PTO/SB/17 (09-00)

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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

Name (Print/Type)

Signature

Russel

Н.

Marvin

/A
141

Complete if Known			
Application Number			
Filing Date			
First Named Inventor	O'Connor, Jr.		
Examiner Name			
Group Art Unit			
Attorney Docket No.			

METHOD OF PAYMENT	FEE CALCULATION (continued)			
The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:	3. ADDITIONAL FEES Large Entity Small Entity			
Deposit Account Number	Fee Fee Fee Fee Fee Description	Fee Paid		
Deposit	105 130 205 65 Surcharge - late filing fee or oath			
Account Name	127 50 227 25 Surcharge - late provisional filing fee or cover sheet			
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	139 130 139 130 Non-English specification			
Applicant daims small entity status.	147 2,520 147 2,520 For filing a request for ex parte reexamination			
See 37 CFR 1.27 2. X Payment Enclosed: CK# 5'0.7'41	112 920* 112 920* Requesting publication of SIR prior to Examiner action			
2. X Payment Enclosed: CK# 50:734 Money Order Other	113 1,840* 113 1,840* Requesting publication of SIR after Examiner action			
FEE CALCULATION	115 110 215 55 Extension for reply within first month			
1. BASIC FILING FEE	116 390 216 195 Extension for reply within second month			
Large Entity Small Entity	117 890 217 445 Extension for reply within third month			
Fee Fee Fee Fee Description Code (\$) Code (\$) Fee Paid	118 1,390 218 695 Extension for reply within fourth month			
101 710 201 355 Utility filing fee	128 1,890 228 945 Extension for reply within fifth month			
106 320 206 160 Design filing fee	119 310 219 155 Notice of Appeal			
107 490 207 245 Plant filing fee	120 310 220 155 Filing a brief in support of an appeal			
108 710 208 355 Reissue filing fee	121 270 221 135 Request for oral hearing			
114 150 214 75 Provisional filing fee	138 1,510 138 1,510 Petition to institute a public use proceeding			
SUPTOTAL (4) (C)	140 110 240 55 Petition to revive - unavoidable			
SUBTOTAL (1) (\$) 370.00	141 1,240 241 620 Petition to revive - unintentional			
2. EXTRA CLAIM FEES	142 1,240 242 620 Utility issue fee (or reissue)			
Extra Claims below Fee Paid	143 440 243 220 Design issue fee			
Total Claims20** = X =	144 600 244 300 Plant issue fee			
Claims -3	122 130 122 130 Petitions to the Commissioner			
Multiple Dependent	123 50 123 50 Petitions related to provisional applications			
Large Entity Small Entity	126 240 126 240 Submission of Information Disclosure Stmt			
Fee Fee Fee Fee Fee Description Code (\$) Code (\$)	581 40 581 40 Recording each patent assignment per property (times number of properties)			
103 18 203 9 Claims in excess of 20	146 710 246 355 Filing a submission after final rejection (37 CFR § 1.129(a))			
102 80 202 40 Independent claims in excess of 3 104 270 204 135 Multiple dependent claim, if not paid	149 710 249 355 For each additional invention to be examined (37 CFR § 1.129(b))			
109 80 209 40 "Reissue independent claims over original patent	179 710 279 355 Request for Continued Examination (RCE)			
110 18 210 9 ** Reissue claims in excess of 20	169 900 169 900 Request for expedited examination			
and over original patent SUBTOTAL (2) (\$)	of a design application Other fee (specify)			
**or number previously paid, if greater, For Reissues, see above Reduced by Basic Filing Fee Paid SUBTOTAL (3)				
SUBMITTED BY Complete (if applicable)				

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Registration No.

Telephone

860-489-0489

10/25/2001



February 13, 2002

Assistant Commissioner for Patent Box Patent Applications Washington, DC 20231

Subject:

Application # 60246485

Improved Centrifugal Impeller

Dear Sir:

Enclosed please find copies of documents originally Express Mailed on October 25, 2001 for Improved Centrifugal Impeller, Application # 60246485. The enclosed Affidavit and copy of the original Express Mail document should be confirmation of such. To date, the checks mailed with the Utility Filing Fee (\$370.00 check # 4384) and Assignment Fee (\$40.00 check # 4385) have not been cashed.

. I believe that with the anthrax scare this package may have been misplaced along the way. I would appreciate your consideration in accepting our filing with the enclosed new checks to cover Utility Filing and Assignment Fees.

Please confirm that we will receive the October 25 filing date for the patent application.

If you require further information, please feel free to contact us at (860) 489-0489.

Sincerely,

Russel Marvin

Chief Technical Officer

hoad HMun.

RM/bla (ap60246485)

89 Commercial Boulevard

P.O. Box 536

Torrington, CT 06790

Phone: 860-489-0489

Fax: 860-482-2564

AFFIDAVIT

STATE OF Connecticut)	
)	ss. Torrington
COUNTY OF Litchfield)	

I, Beth L. Anstett, being duly sworn, depose and say:

I mailed via Express Mail on October 25, 2001 the documents contained herein for patent pertaining to "Improved Centrifugal Impeller".

To date, we have not received any documentation stating the receipt of said documents by the Office of the Assistant Commissioner of Patents.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal this

day of Johnay, 2002.

Beth L. Anstett

On this, 13 day of Lbury, 2002, before me the subscriber personally appeared, Beth L. Anstett, to me known and known to me to be the same person described above and who executed the foregoing instrument and duly acknowledged that she executed the same.

Notary Publi

My Commission Expires April 30, 2004

My commission expires